

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P210331

Luminaire Tested: **PR8R10D010 - PR8M12MDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29044)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8R10D010 - PR8M12MDMB - 4000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1134.3 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

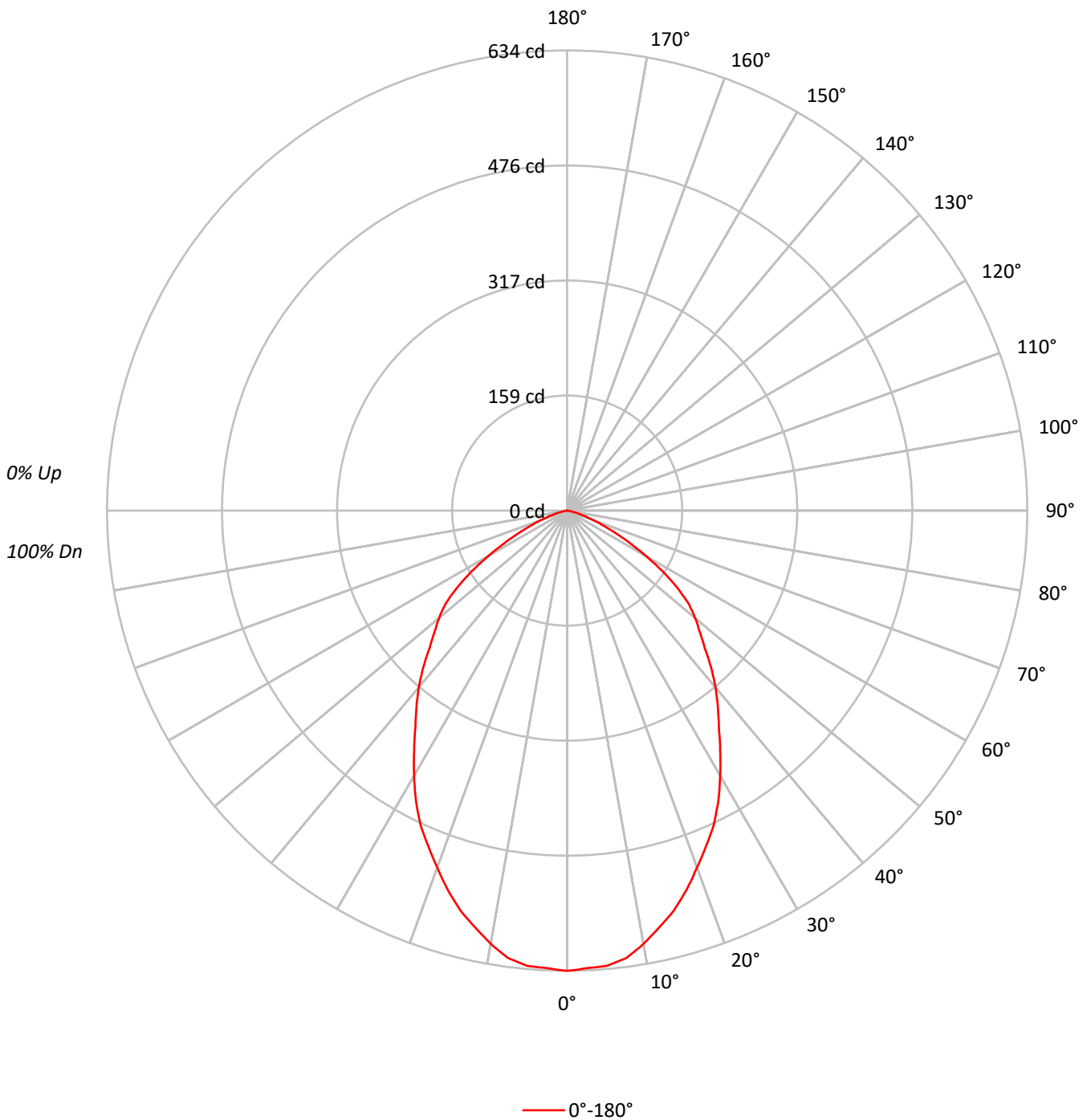
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19553
5°	19486
10°	18978
15°	18197
20°	17169
25°	16260
30°	15022
35°	13718
40°	12805
45°	11696
50°	11058
55°	9957
60°	7783
65°	5421
70°	3444
75°	1942
80°	550
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	5.2
10°-20°	159.7	14.1
20°-30°	218.7	19.3
30°-40°	229.3	20.2
40°-50°	208.9	18.4
50°-60°	163.0	14.4
60°-70°	75.9	6.7
70°-80°	18.9	1.7
80°-90°	0.6	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	437.7	38.6
0°-40°	667.0	58.8
0°-60°	1038.9	91.6
0°-90°	1134.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1134.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	634	
5°	630	59
15°	570	160
25°	478	219
35°	364	229
45°	268	209
55°	185	163
65°	74	76
75°	16	19
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	634.1
2.5°	631.1
5°	629.5
7.5°	621.9
10°	606.1
12.5°	587.8
15°	570.0
17.5°	547.6
20°	523.2
22.5°	500.3
25°	477.9
27.5°	450.9
30°	421.9
32.5°	392.4
35°	364.4
37.5°	341.0
40°	318.1
42.5°	293.6
45°	268.2
47.5°	247.8
50°	230.5
52.5°	211.2
55°	185.2
57.5°	156.2
60°	126.2
62.5°	97.7
65°	74.3
67.5°	53.9
70°	38.2
72.5°	26.0
75°	16.3
77.5°	9.2
80°	3.1
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)